**Application No.:** 10/748,249 **Docket No.:** 1163-0487P

## AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended)

A surface-mounting type optical device comprising:

a light-emitting member that is attached at the bottom of the <u>a</u> main body of the optical device a portion of which is inserted in <u>a</u> the engaging hole of a substrate, and that emits light in <u>an</u> the interior direction of the substrate;

an electrode member that is led out from  $\underline{a}$  the side of the main body of the optical device, is connected to a pattern formed on  $\underline{a}$  the surface of the substrate, and electrically connects the pattern and the light-emitting member; and

a step portion that is formed in part of the main body of the optical device, and engages the substrate.

Claim 2. (Currently Amended)

The surface-mounting type optical device according to Claim 1, wherein the step portion is formed on <u>a</u> the side of the main body of the optical device, which is opposite the side thereof from which the electrode member is led out.

Claim 3. (Currently Amended)

A surface-mounting type optical device comprising:

a light-receiving member that is attached at <u>a</u> the bottom of <u>a</u> the main body of the optical device a portion of which is inserted in <u>an</u> the engaging hole of a substrate, and that receives light emitted from <u>an</u> the interior direction of the substrate;

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an electrode member that is led out from  $\underline{a}$  the side of the main body of the optical device, is connected to a pattern formed on  $\underline{a}$  the surface of the substrate, and electrically connects the pattern and the light-receiving member; and

a step portion that is formed in part of the main body of the optical device, and engages the substrate.

## Claim 4. (Currently Amended)

The surface-mounting type optical device according to Claim 3, wherein the step portion is formed on the side of the main body of the optical device, which is opposite <u>a</u> the side thereof from which the electrode member is led out.

## Claim 5. (Currently Amended)

A surface-mounting type optical device comprising:

a light-emitting member that is attached at <u>a</u> the bottom of the main body of <u>a</u> the optical device a portion of which is inserted in <u>a</u> the engaging hole of a substrate, and that emits light in <u>a</u> the interior direction of the substrate;

a step portion that is formed in part of the main body of the optical device, and engages the substrate; and

a fixing electrode that is formed on the step portion, is connected to a pattern formed on <u>a</u> the surface of the substrate, and electrically connects the pattern and the light-emitting member.

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Claim 6. (Currently Amended)

A surface-mounting type optical device comprising:

a light-receiving member that is attached at <u>a</u> the bottom of <u>a</u> the main body of the optical device a portion of which is inserted in <u>an</u> the engaging hole of a substrate, and that receives light emitted from <u>a</u> the direction of <u>an</u> the interior of the substrate;

a step portion that is formed in part of the main body of the optical device, and engages the substrate; and

a fixing electrode that is formed on the step portion, is connected to a pattern formed on <u>a</u> the surface of the substrate, and electrically connects the pattern and the light-receiving member.